Chapter 1 – Introduction of Selenium

What is Selenium?

Selenium is an open source test automation testing tool used to automating web based applications

It supports automation across multiple browser, platforms and programming language.

What are the components of Selenium?

1. Selenium IDE ( Integrated Development Environment )

It is an add-on of firefox browser that provides record and play back functionality.

Its use is limited and test scripts generated are not very robust and portable.

Optimize coding – writing loops, methods, data table not possible

1. Selenium RC ( Remote Control )

RC stands for Remote Control

It is officially deprecated by selenium team

It is also called Selenium1

1. Selenium WebDriver

It is advanced version of Selenium RC

It is also called as Selenium2

1. Selenium Grid

It is used to execute test scripts in different environments at a same time

What are the advantages of Selenium?

1. It is an open source, no license cost
2. It supports multiple programming languages – java, c#, perl, ruby, python….
3. It supports multiple browsers – Chrome, FF, Edge, Safari…………..
4. It supports multiple OS

What are the limitations of disadvantages of Selenium?

1. It won’t support Desktop application automation
2. WebService automation is not possible
3. It requires a minimum programming language concepts
4. This software is not available directly, we have to set up
5. To perform a particular task we have to depends on external libraries

Ex: if we want to maintain excel concepts then we have to configure external library apache poi

1. As it is an open source, no tool support
2. Middle of test script execution is not possible
3. After execution of test script, it won’t display any user friendly automation results